

Figure 1

**The Cholesterol, Fatty Acid and Phospholipid Pathways:  
Regulation by Sterol Regulatory Element Binding Proteins (SREBPs)**

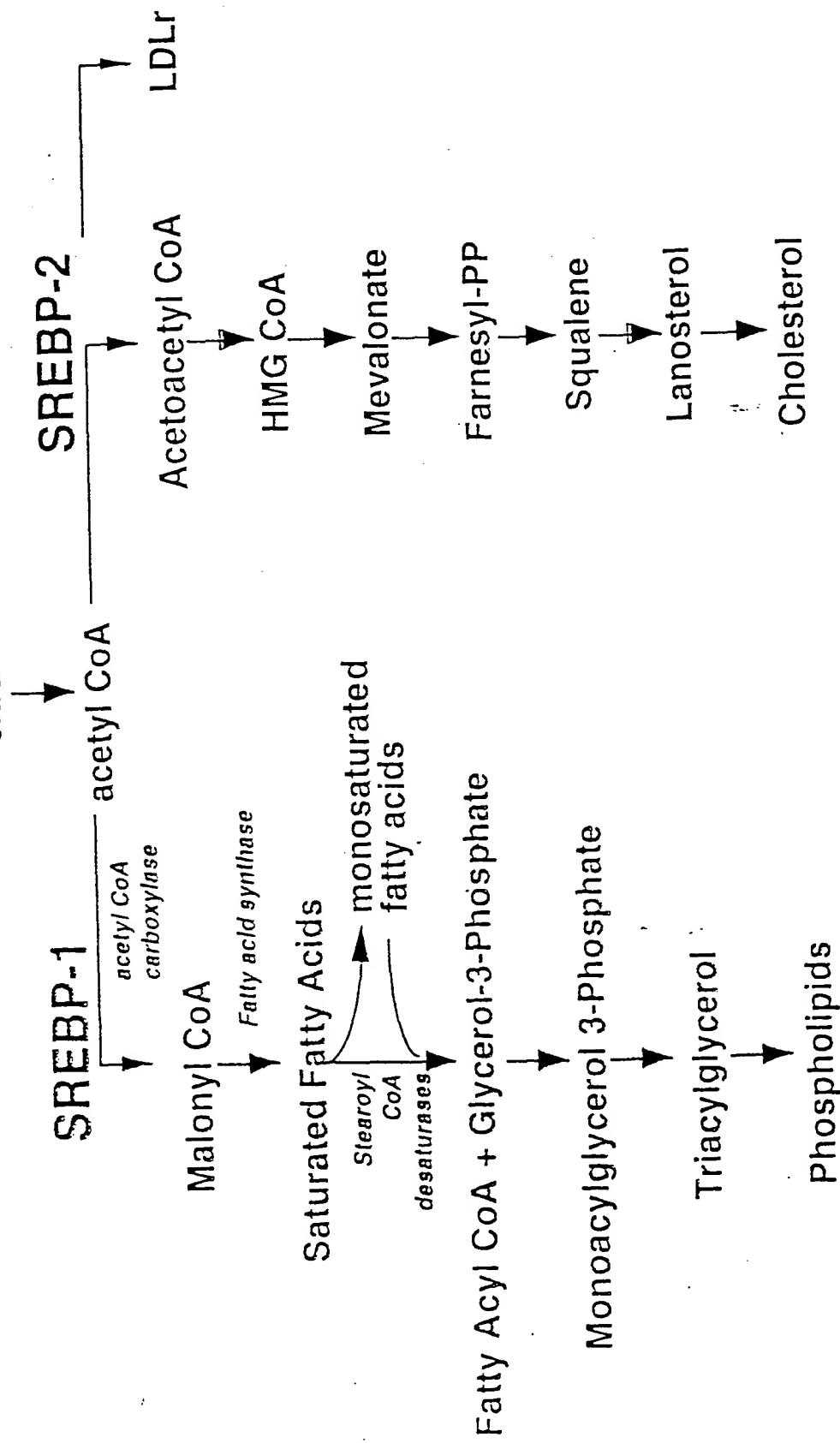


Figure 2

24,25-epoxy cholesterol activate SREBP1 and FAS

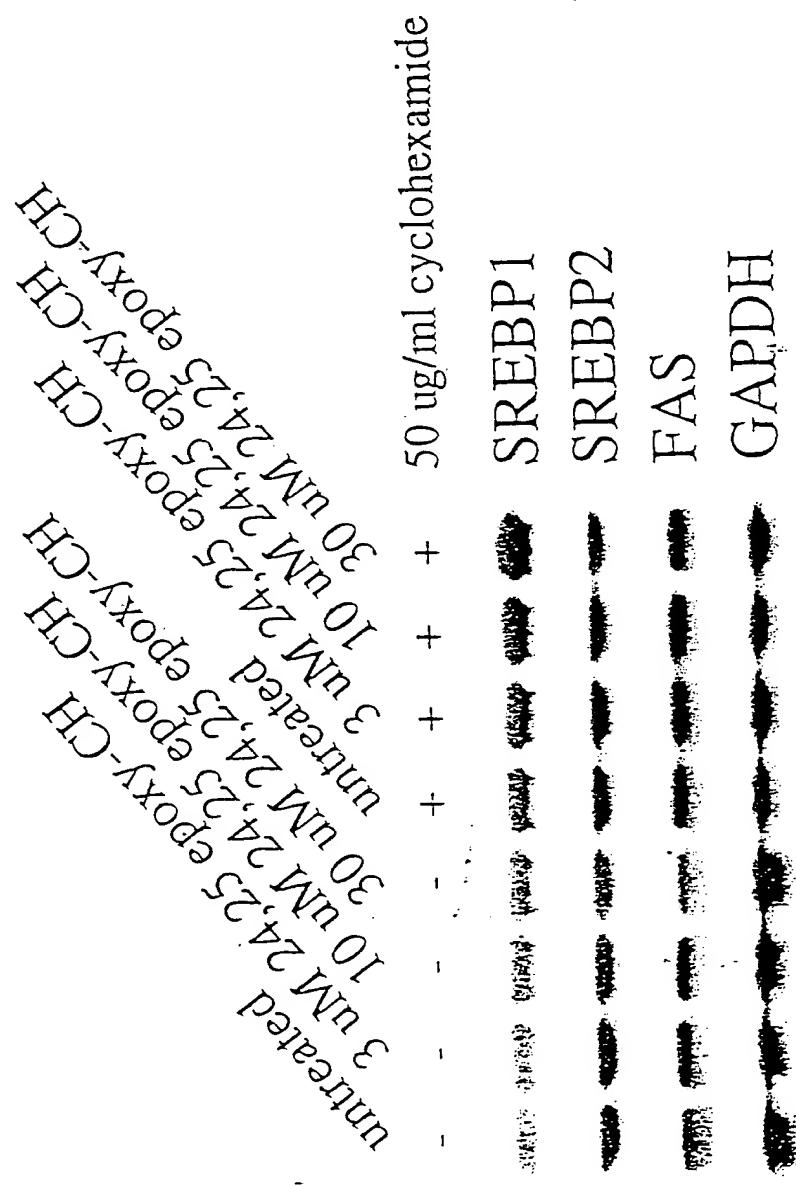


Figure 3

24,25 epoxy-cholesterol activates SREBP1 in different cell lines

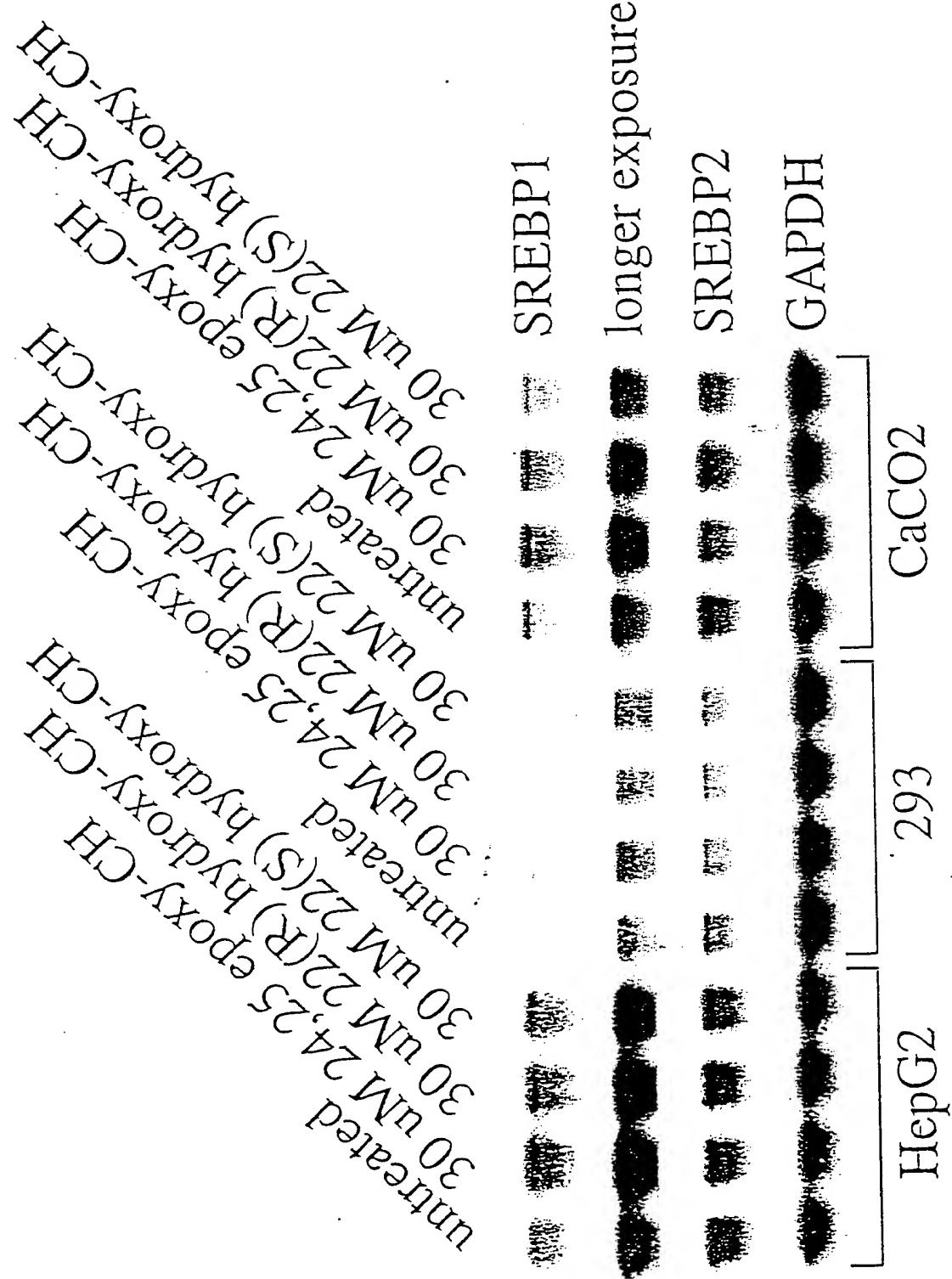
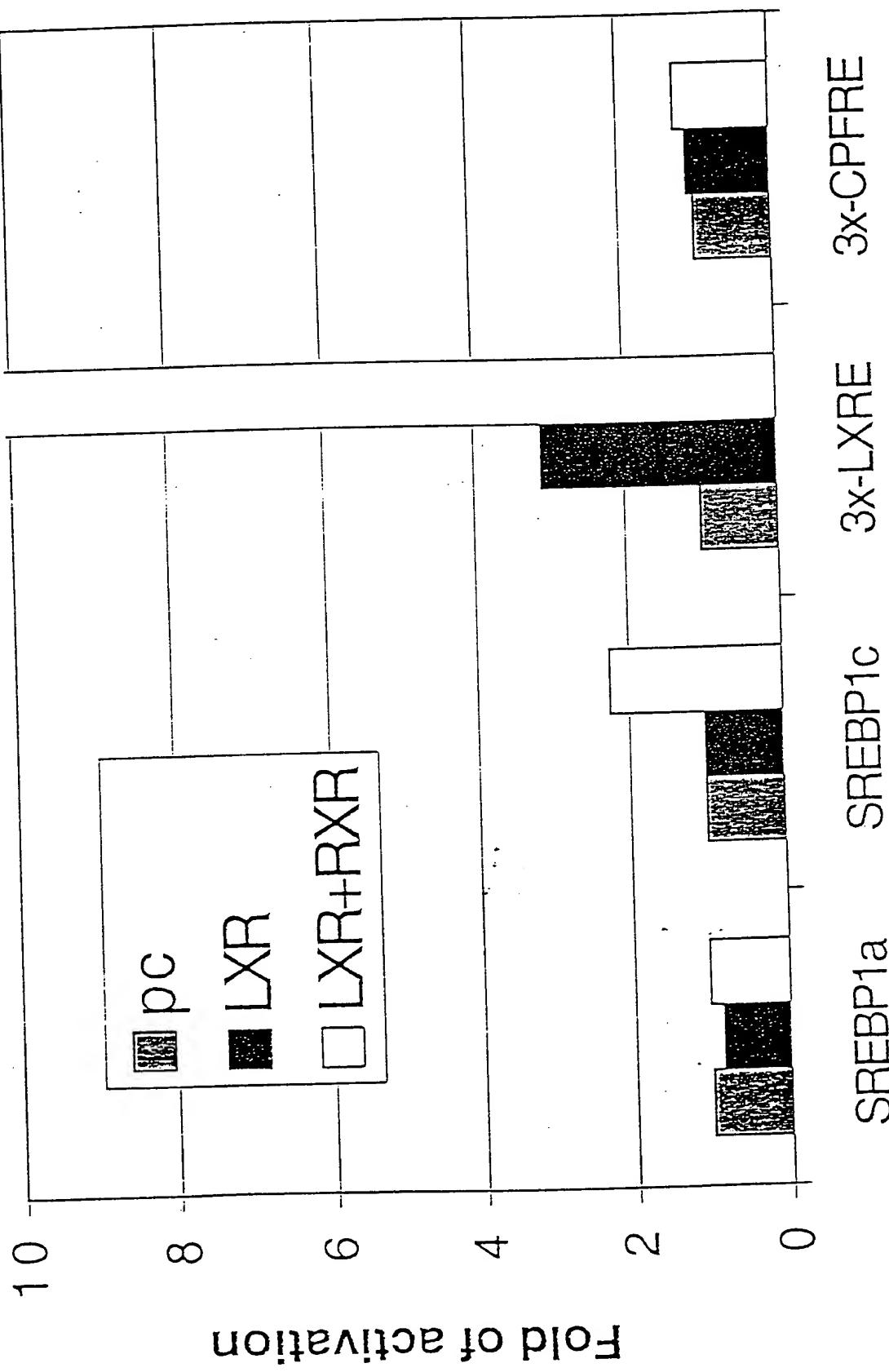
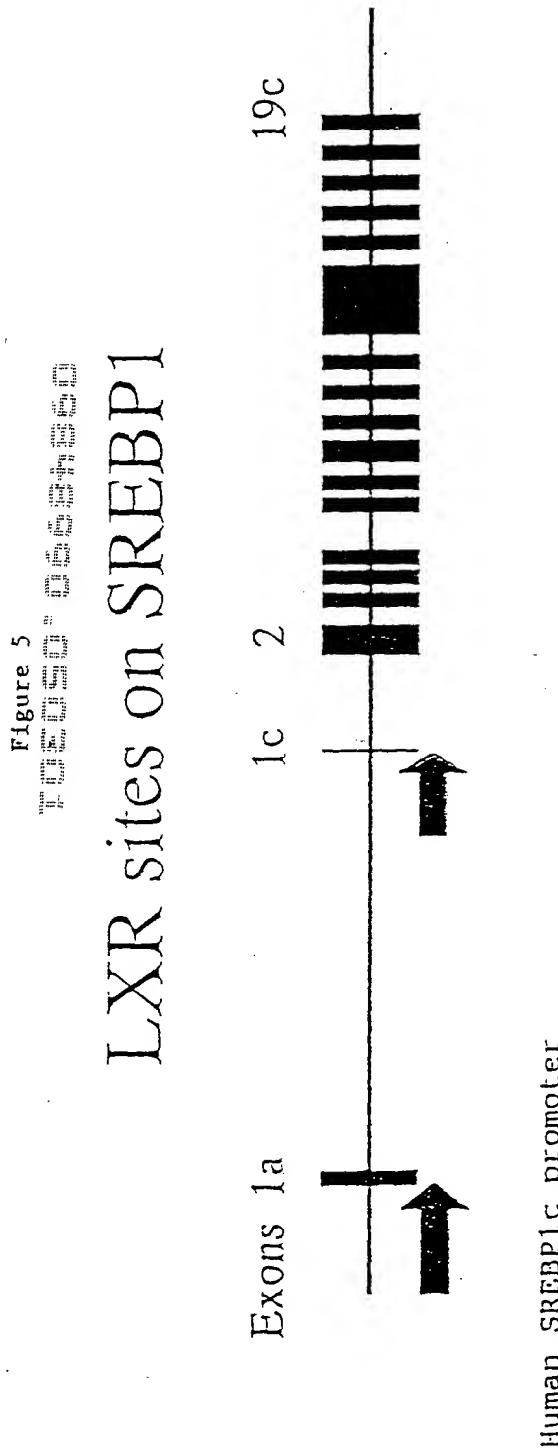


Figure 4

293 transient transfection



## LXR sites on SREBP1



CAATCTGGGACCTGCCCTGGCATCTGGGCTCTGGGGCTTGGGGTGGAGCTGTCGCTGGCCACTGGCCACACCCCTCGGT  
ACCTTGAGCTCTCCTTCTTGGGCTCTGGGGATACCTTCTGGGGATACCTTCTGGGGCTTGGGGTGGAGCTGTCGCTGGCCACTGGG  
TTCTGGGAACCTGCCCTGGCATCTGGGCTCTGGGGATACCTTCTGGGGCTTGGGGTGGAGCTGTCGCTGGCCACTGGG  
CCAGATGGGGATGGGGATGGGGATGGGGATGGGGATGGGGATGGGGATGGGGATGGGGATGGGGATGGGGATGGGG  
TGTCTGGAGGGCCACCCCTGGGGATGGGGATGGGGATGGGGATGGGGATGGGGATGGGGATGGGGATGGGG  
CCTGAGGGCTCACTCTCTGGGAGAGCCCTGGGGATGGGGATGGGGATGGGGATGGGGATGGGGATGGGG  
CAGAGCAGCCGGCTTGCTTGCTCTGGGACTCCAGAGACTGGGGAGCCCTGGGACTCCAGAGATTCAGGGGGCC  
ATCCCAGACTAGGGGGAGGGGGCTCAGCCCTGGGCTGAAATTCTAGAATAAACCCAGGGCCACTCTCC  
ACATGGGGAGGGGGAGGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGG  
CTTGAGGGATGGGGAGGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGG

Figure 6

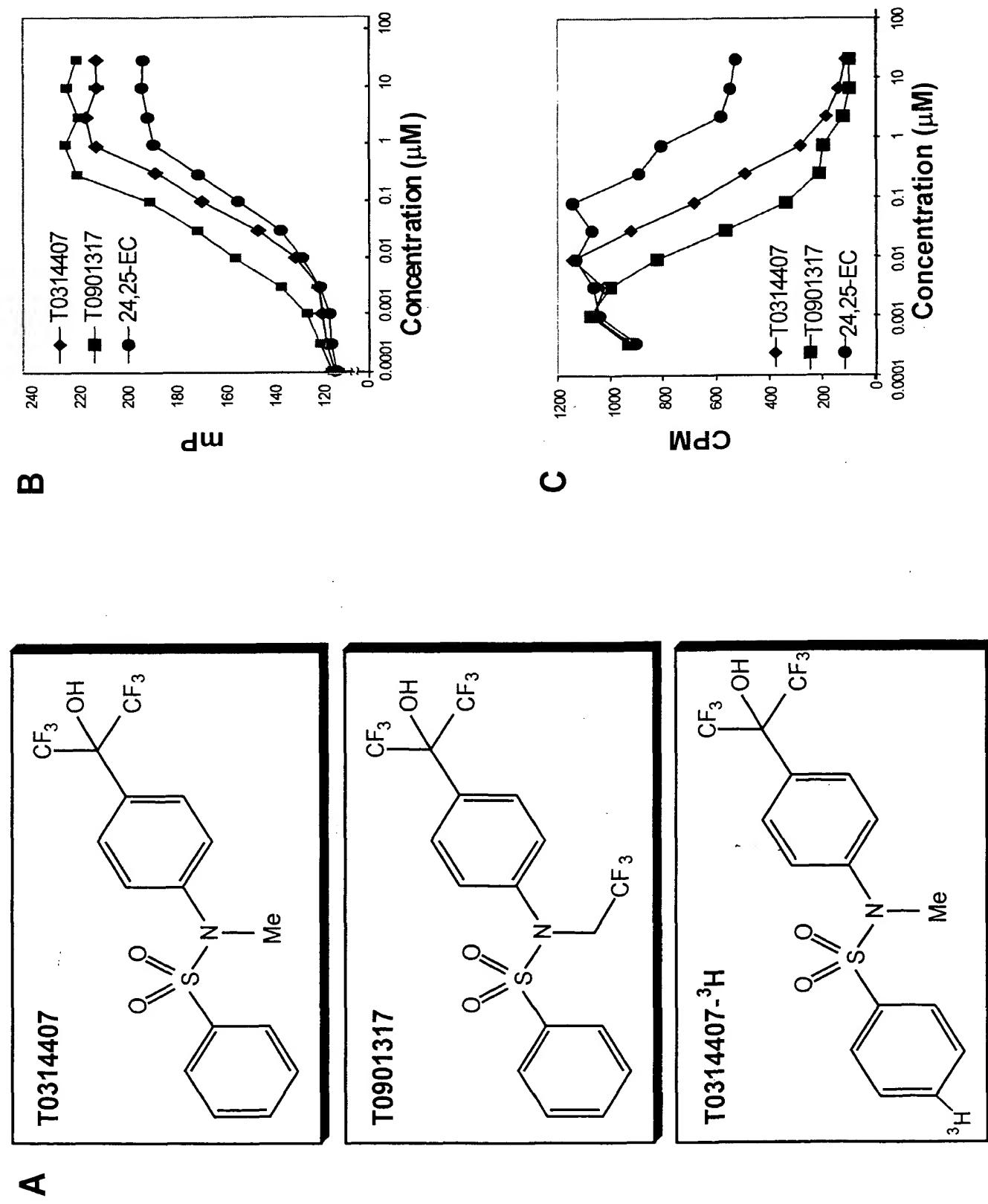


Figure 7

Activation of various nuclear receptors by T0314407, T0901317, and 24,25-EC

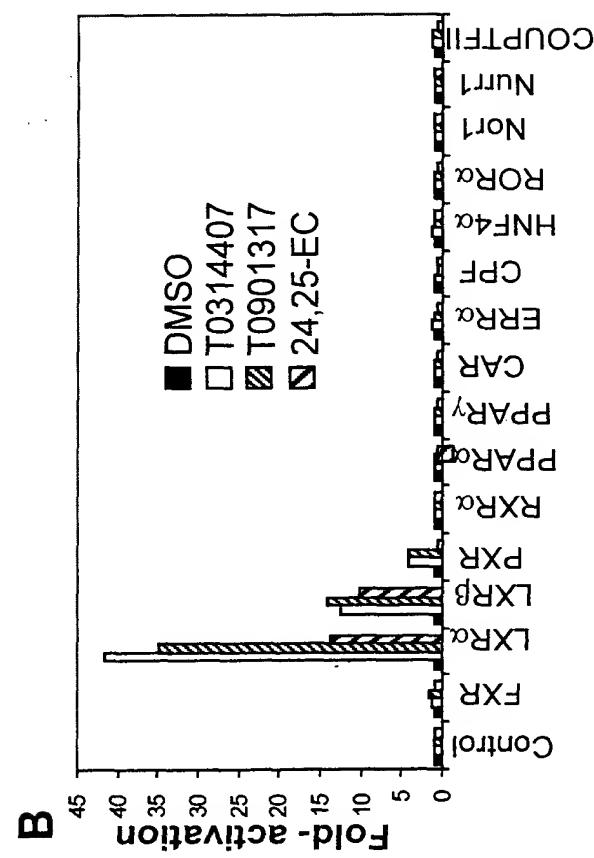
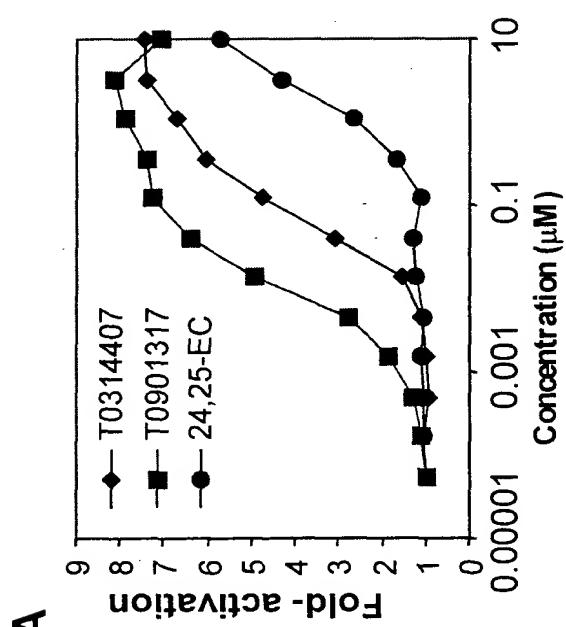


Figure 8

Effect of T0901317 on plasma triglyceride and HDL cholesterol levels in rats.

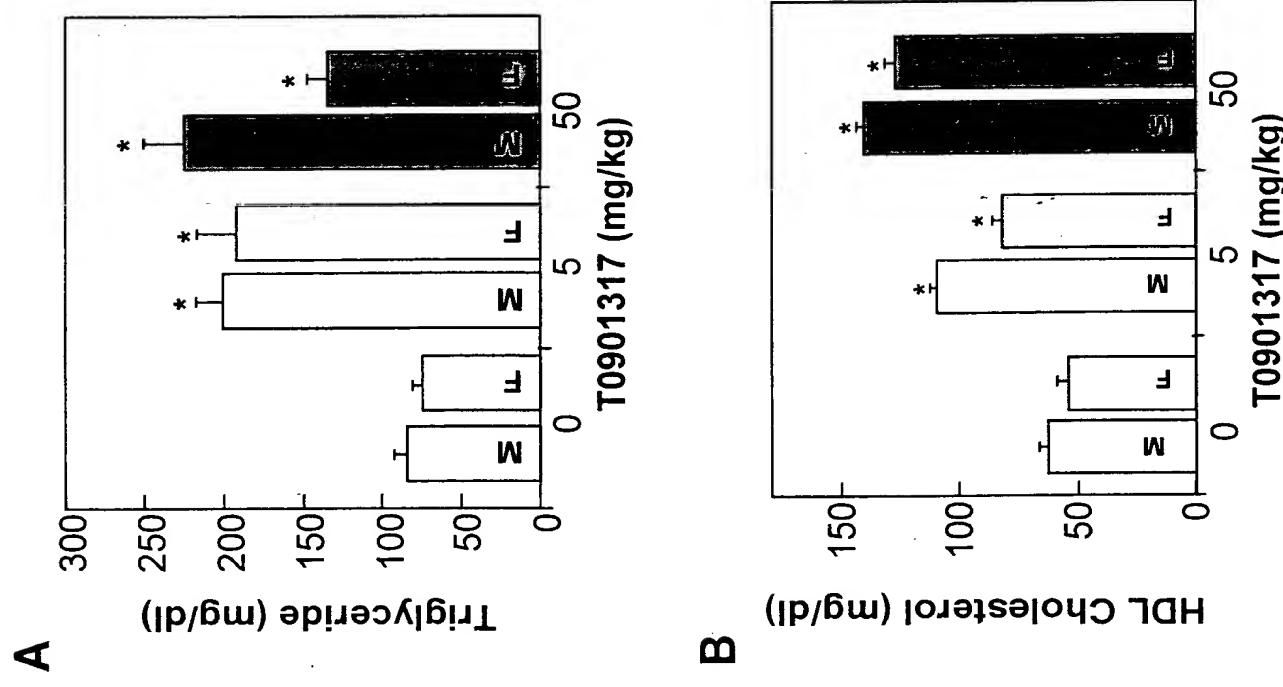


Figure 9  
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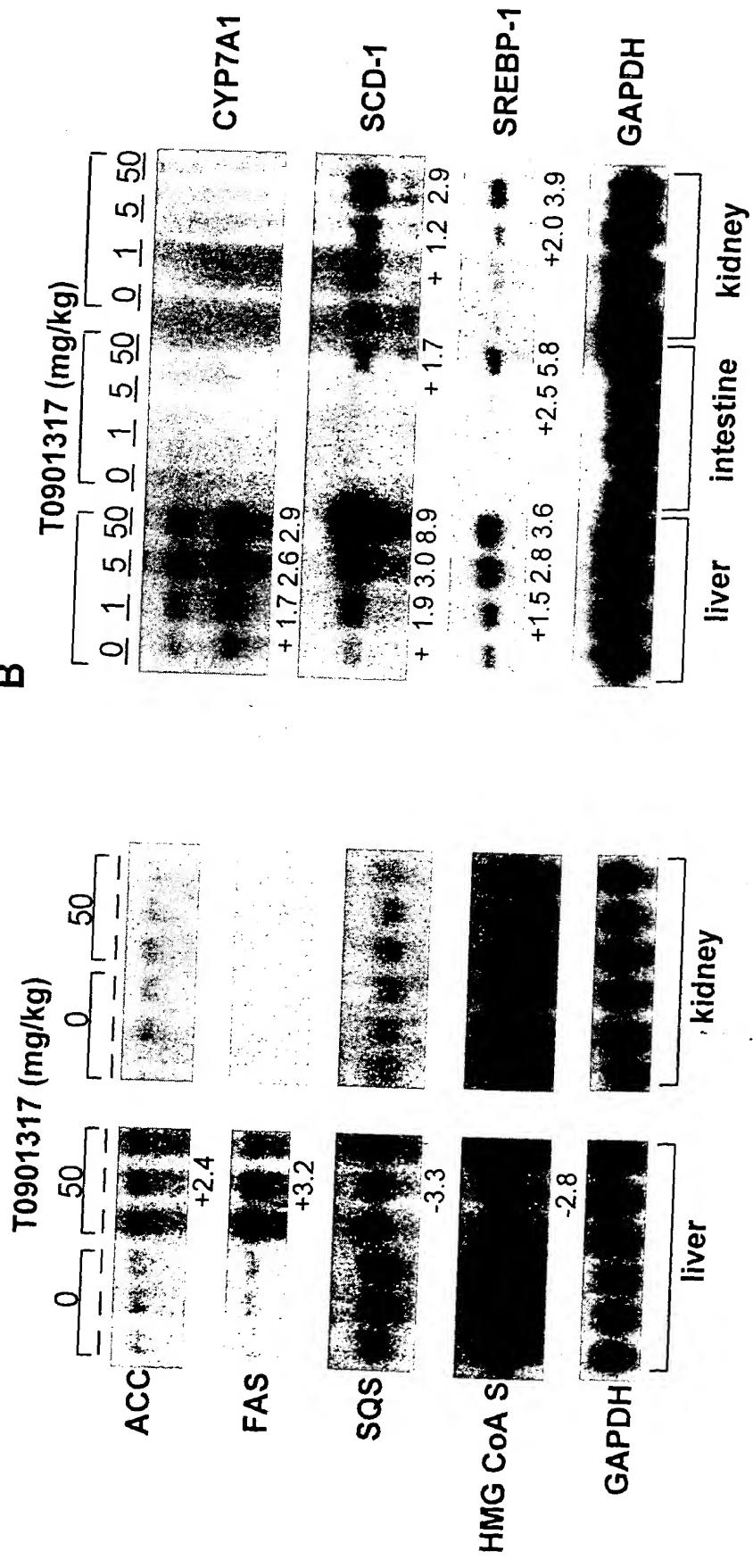


Figure 9  
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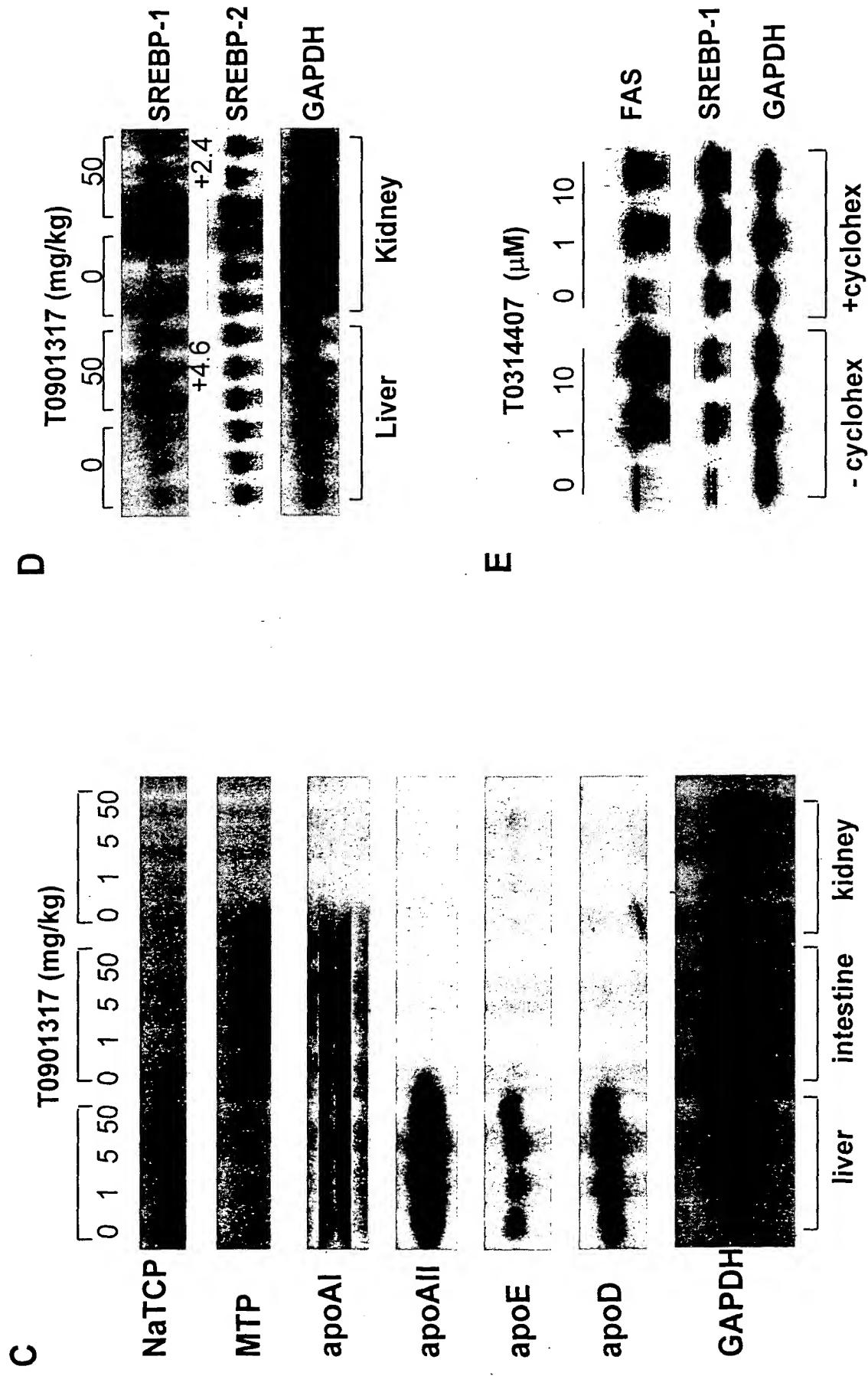


Figure 10

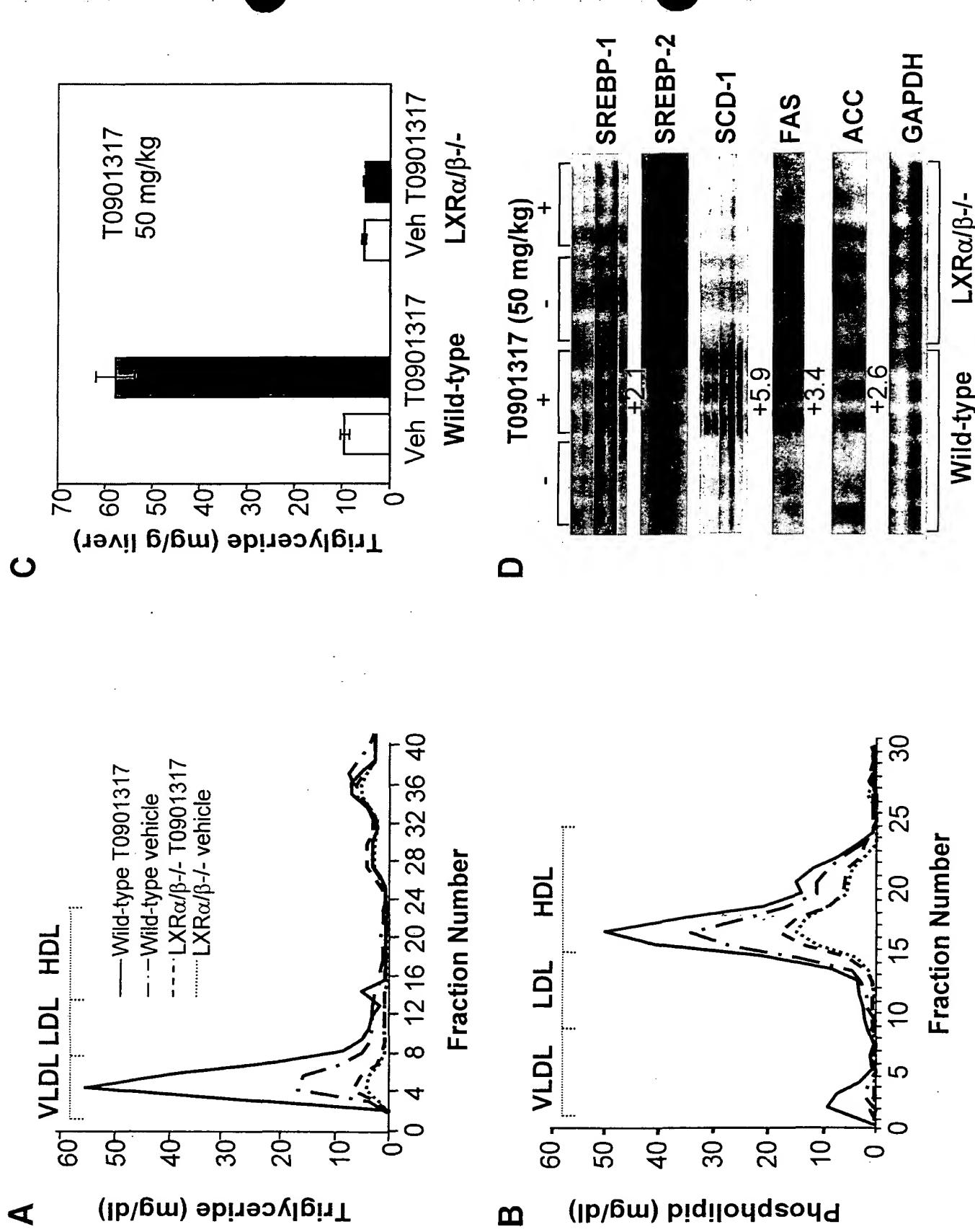


Figure 11

Supplementary Table I. The sequence of PCR primers used for amplifying mouse cDNA probes

cDNA Probe	Primer Set	Primer Sequence	PCR Product Length
acetyl CoA carboxylase	5' 3'	TACCTGGGACAGCAACCA GGTCGACAGCAAGGGAA	521
fatty acid synthase	5' 3'	CCCGATGGGGGTTCATC GATCCCTCTGGGTGTCCC	493
squalene synthase	5' 3'	CGTGCAGTGCCTGAATGAAC TTGGGGATCCGGTGTATAAT	288
HMG CoA synthase	5' 3'	CCCAGCAGAGGTTTCTACAA AATTCCCTCAGGGGACATGC	1285
SREBP-1	5' 3'	TCA ACAACCAAGACAGTGACTTCCCTGGCC GTTCTCCTGCTTGAGCTTCTGGTTGCTGTG	1028
NTCP	5' 3'	AGCAAGATCAAGGCTCACTTCT ATAGTGTGGCCTTTGGACTTC	405
MTP	5' 3'	TTCTCTGCTTCCTCTCCCT GGCTCGTTTCATAGGAGTAGA	403
ApoA-I	5' 3'	GGCAGAGACTATGTGTCCCAGTTGA GTCATCCAGCCGGGTTGGCCTCTC	564
ApoA-II	5' 3'	ATAGTCTGCCATCATGAAGCTG GAGAAAACAGGCAGAAAGGTAGG	406
ApoE	5' 3'	CCGTGCTGGTGGTCACATT TTATAAGCAAGGCCACCA	1014